

-1933 AGAAAGAAAG AGAGAGAGAA AGAAAAGAAA GAGGAAGGAA GGAAGGAAGG AAGAAAGACA
 -1873 GGCTCTGAGG AAGGTGGCAG TTCCTACAAC GGGAGAACCA GTGGTTAATT TGCAAAGTGG
 -1813 ATCCGTGGA GGCANNAGA GGAGTCCCCT AGGCCACCCA GACAGGGCTT TTAGCTATCT
 -1753 GCAGGCCAGA CACCAAATTT CAGGAGGGCT CAGTGTAGG AATGGATTAT GGCTTATCAA
 -1693 ATTACACAGGA AACTAACATG TTGAACAGCT TTTAGATTTC CTGTGGAAAA TATAACTTAC
 -1633 TAAAGATGGA GTTCTTGTGA CTGACTCCTG ATATCAAGAT ACTGGGAGCC AAATTAAAAA
 -1573 TCAGAAGGCT GCTTGGAGAG CAAGTCCATG AAATGCTCTT TTTCCCACAG TAGAACCTAT
 -1513 TTCCCTCGTG TCTCAAATAC TTGCACAGAG GCTCACTCCC TTGGATAATG CAGAGCGAGC
 -1453 ACGATACCTG GCACATACTA ATTTGAATAA AATGCTGTCA AATTCCCATT CACCCATTCA
 -1393 AGCAGCAAAC TCTATCTCAC CTGAATGTAC ATGCCAGGCA CTGTGCTAGA CTTGGCTCAA
 -1333 AAAGATTCA GTTCTCTGGA GGAACCAGGA GGGCAAGGTT TCAACTCAGT GCTATAAGAA
 -1273 GTGTTACAGG CTGGACACGG TGGCTCACGC CTGTAATCCC AACATTGGG AGGCCGAGGC
 -1213 GGGCAGATCA CAAGGTCAGG AGATCGAGAC CATCCTGGCT AACATGGTGA AACCTGTCT
 -1153 CTACTAAAAA TACAAAAAAT TAGCCGGGCG TTGGCGGCAG GTGCCTGTAG TCCCAGCTGC
 -1093 TGGGGAGGCT GAGGCAGGAG AATGGTGTGA ACCCGGGAGG CGGAACCTGC AGGGGGCCGA
 -1033 GATCGTGCCA CTGCACTCCA GCCTGGGCGA CAGAGTGAGA CTCTGTCTCA AAAAAAAA
 -973 AAAAGTGT TA TGATGCAGAC CTGTCAAAGA GGCAAAGGAG GGTGTTCTA CACTCCAGGC
 -913 ACTGTTCAT A CCTGGACTC TCATTCAATC TACAAATGGA GGGCTCCCCT GGGCAGATCC
 -853 CTGGAGCAGG CACTTTGCTG GTGTCTCGGT TAAAGAGAAA CTGATAACTC TTGGTATTAC
 -793 CAAGAGATAG AGTCTCAGAT GGATATTCTT ACAGAAACAA TATTCCACT TTTCAGAGTT
 -733 CACCAAAAAA TCATTTAGG CAGAGCTCAT CTGGCATTGA TCTGGTTCAT CCATGAGATT
 -673 GGCTAGGGTA ACAGCACCTG GTCTTGAGG GTTGTGTGAG CTTATCTCCA GGGTTGCC
 -613 AACTCCGTCA GGAGCCTGAA CCCTGCATAC CGTATGTTCT CTGCCCCAGC CAAGAAAGGT
 -553 CAATTTCTC CTCAGAGGCT CCTGCAATTG ACAGAGAGCT CCCGAGGCAG AGAACAGCAC
 -493 CCAAGGTAGA GACCCACACC CTCAAATACAG ACAGGGAGGG CTATTGGCCC TTCATTGTAC
 -433 CCATTTATCC ATCTGTAAGT GGGAAAGATTC CTAAACTTAA GTACAAAGAA GTGAATGAAG
 -373 AAAAGTATGT GCATGTATAA ATCTGTTGT CTTCCACTTT GTCCCACATA TACTAAATT
 -313 AAACATTCTT CTAACGTGGG AAAATCCAGT ATTTTAATGT GGACATCAAC TGCACAACGA
 -253 TTGTCAGGAA ACAATGCAT ATTTGCATGG TGATACATTG GCAAAATGTG TCATAGTTG
 -193 CTACTCCTTG CCCTTCATG AACAGAGAA TTATCTCAGT TTATTAGTCC CCTCCCCCTAA
 -133 GAAGCTCCA CCAAAACTCT TTTCCCTTT CCTTTAACCTT GATTGTGAAA TCAGGTATTC
 -73 AACAGAGAAA TTTCTCAGCC TCCTACTTCT GCTTTGAAA GCTATAAAA CAGCAGGGAA
 -13 GAAACTGGCA GATAACAAAC CTCTTCGAGG CACAAGGCAC AACAGGCTGC TCTGGGATTC
 48 TCTTCAGCCA ATCTTCATTG CTCAAGTATG ACTTTAATCT TCCTTACAAC TAGGTGCTAA
 108 GGGAGTCTCT CTGTCTCTCT GCCTCTTTGT GTGTATGCAT ATTCTCTCTC TCTCTCTCTT
 168 TCTTCTCTG TCTCTCCTCT CCTTCCTCTC TGCCCTCTCT CTCAGCTTT TGCAAAATG
 228 CCAGGTGTA TATAATGCTT ATGACTCGGG AAATATTCTG GGAATGGATA CTGCTTATCT
 288 AACAGCTGAC ACCCTAAAGG TTAGTGTCAA AGCCTCTGCT CCAGCTCTCC TAGCCAATAC
 238 ATTGCTAGTT GGGGTTGGT TTAGCAAATG CTTTCTCTA GACCCAAAGG ACTTCTCTTT
 308 CACACATTCA TTCATTACT CAGAGATCAT TTCTTGCAT GACTGCCATG CACTGGATGC
 468 TGAGAGAAAT CACACATGAA CGTAGCCGTC ATGGGGAAAGT CACTCATTTC CTCCCTTTA
 528 CACAGGTGTC TGAAGCAGCC ATGGCAGAAG TACCTGAGCT CGCCAGTGAATGATGGCTT
 588 ATTACAGGTC AGTGGAGACG CTGAGACCAG TAACATGAGC AGGTCTCCTC TTTCAAGAGT

Fig. 1A

648 AGAGTGTAT CTGTGCTTGG AGACCAGATT TTTCCCCTAA ATTGCCTCTT TCAGTGGCAA
 708 ACAGGGTGCC AAGTAAATCT GATTTAAAGA CTACTTCCC ATTACAAGTC CCTCCAGCCT
 768 TGGGACCTGG AGGCTATCCA GATGTGTTGT TGCAAGGGCT TCCTGCAGAG GCAAATGGGG
 828 AGAAAAGATT CCAAGCCCAC AATACAAGGA ATCCCTTGC AAAGTGTGGC TTGGAGGGAG
 888 AGGGAGAGCT CAGATTAG CTGACTCTGC TGGGCTAGAG GTTAGGCCTC AAGATCCAAC
 948 AGGGAGCACC AGGGTGCCCA CCTGCCAGGC CTAGAATCTG CCTTCGGAC TGTTCTGC
 1008 ATATCACTGT GAAACTTGCC AGGTGTTCA GGCAGCTTG AGAGGCAGGC TGTTGCAGT
 1068 TTCTTATGAA CAGTCAAGTC TTGTACACAG GGAAGGAAAA ATAAACCTGT TTAGAAGACA
 1128 TAATTGAGAC ATGTCCCTGT TTTTATTACA GTGGAATGA GGATGACTTG TTCTTGAAAG
 1188 CTGATGGCCC TAAACAGATG AAGGTAAGAC TATGGGTTA ACTCCAACC CAAGGAAGGG
 1248 CTCTAACACA GGGAAAGCTC AAAGAAGGGGA GTTCTGGGCC ACTTTGATGC CATGGTATTT
 1308 TGTTTAGAA AGACTTTAAC CTCTTCCAGT GAGACACAGG CTGCACCACT TGCTGACCTG
 1368 GCCACTGGT CATCATATCA CCACAGTCAC TCACTAACGT TGTTGGTGGT GGCCACACTT
 1428 GGTGGTGACA GGGGAGGAGT AGTGATAATG TTCCCATTTC ATAGTAGGAA GACAACCAAG
 1488 TCTTCAACAT AAATTTGATT ATCCTTTAA GAGATGGATT CAGCCTATGC CAATCAGCTG
 1548 AGTTAAACTC TGAAACCAAG AGATGATCTT GAGAACTAAC ATATGTCTAC CCCTTTGAG
 1608 TAGAATAGTT TTTGCTACC TGGGGTGAAG CTTATAACAA CAAGACATAG ATGATATAAA
 1668 CAAAAAGATG AATTGAGACT TGAAAGAAAA CCATTCACTT GCTGTTGAC CTTGACAAGT
 1728 CATTTCACCC GCTTTGGACC TCATCTGAAA AATAAAGGGC TGAGCTGGAT GATCTCTGAG
 1788 ATTCCAGCAT CCTGCAACCT CCAGTTCTGA AATATTTCA GTTGTAGCTA AGGGCATTG
 1848 GGCAGCAAAT GGTCACTTTT CAGACTCATC CTTACAAAGA GCCATGTTAT ATTCTGCTG
 1908 TCCCTTCTGT TTTATATGAT GCTCAGTAGC CTTCTCTGGT GCCCAGCCAT CAGCCTAGCT
 1968 AGGTCAGTTG TGCAAGTTGG AGGCAGCCAC TTTCTCTGG CTTTATTTA TTCCAGTTG
 2028 TGATAGCCTC CCCTAGCCTC ATAATCCAGT CCTCAATCTT GTTAAAAACA TATTTCTTTA
 2088 GAAGTTTAA GACTGGCATA ACTTCTTGGC TGCAAGCTGTG GGAGGAGCCC ATTGGCTTGT
 2148 CTGCCTGGCC TTTGCCCTT ATTGCCTCTT CCAGCAGCTT GGCTCTGCTC CAGGCAGGAA
 2208 ATTCTCTCCT GCTCAACTTT CTTTGTGCA CTTACAGGTC TCTTTAACTG TCTTTCAAGC
 2268 CTTTGAACCA TTATCAGCCT TAAGGCAACC TCAGTGAAGC CTTAATACGG AGCTTCTCTG
 2328 AATAAGAGGA AAGTGGTAAC ATTCACAAA AAGTACTCTC ACAGGATTTG CAGAATGCC
 2388 ATGAGACAGT GTTATGAAAA AGGAAAAAAA AGAACAGTGT AGAAAAATTG AATACTTGCT
 2448 GAGTGAACAT AGGTGAATGG AAAATGTTAT GGTCATCTGC ATGAAAAAGC AAATCATAGT
 2508 GTGACAGCAT TAGGGATACA AAAAGATATA GAGAAAGGTAT ACATGTATGG TGTAGGTGGG
 2568 GCATGTACAA AAAGATGACA AGTAGAATCG GGATTTATTC TAAAGAATAG CCTGTAAGGT
 2628 GTCCAGAAC CACATTCTAG TCTTGAGTCT GCCTCTACCT GCTGTGTGCC CTTGAGTACA
 2688 CCCTTAACCT CTTGAGCTT CAGAGAGGGTAATCTTTT ATTTTATTTT ATTTTATTTT
 2748 GTTTGTTTT GTTTGTTTT GTTTTATGAG ACAGAGTCTC ACTCTGTTGC CCAGGCTGG
 2808 GTGCAGTGGT ACAATCTTGG CTTACTGCAT CCTCCACCTC CTGAGTTCAA GCGATTCTCC
 2868 TTCCCTCAGTC TCCTGAATAG CTAGGATTAC AGGTGCACCC CACCACACCC AGCTAATTTT
 2928 TGTATTTTA GTAGAGAAGG GTTTGCCA TGTTGGCAG GCTGGTTTG AAGTCCTGAC
 2988 CTAAATGATT CATCCACCTC GGCTTCCCAA AGTGCTGGGA TTACAGGCAT GAGCCACAC
 3048 GCCTGGCCCA GAGAGGGATG ATCTTTAGAA GCTCGGGATT CTTTCAAGCC CTTTCCTCCT
 3108 CTCTGAGCTT TCTACTCTCT GATGTCAAAG CATGGTTCCCT GGCAGGACCA CCTCACCAGG
 3168 CTCCCTCCCT CGCTCTCTCC GCAGTGCTCC TTCCAGGACC TGGACCTCTG CCCTCTGGAT

Fig. 1B

3228 GGCGGCATCC AGCTACGAAT CTCCGACCAC CACTACAGCA AGGGCTTCAG GCAGGCCGCG
 3288 TCAGTTGTTG TGGCCATGGA CAAGCTGAGG AAGATGCTGG TTCCCTGCC ACAGACCTTC
 3348 CAGGAGAATG ACCTGAGCAC CTTCTTCCC TTCATCTTG AAGAAGGTAG TTAGCCAAGA
 3408 GCAGGCAGTA GATCTCCACT TGTGTCCTCT TGGAAAGTCAT CAAGCCCCAG CCAACTCAAT
 3468 TCCCCCAGAG CCAAAGCCCT TTAAAGGTAG AAGGCCAGC GGGGAGACAA AACAAAGAAG
 3528 GCTGGAAACC AAAGCAATCA TCTCTTAGT GGAAACTATT CTTAAAGAAG ATCTTGATGG
 3588 CTACTGACAT TTGCAACTCC CTCACTCTT CTCAGGGGCC TTTCACTTAC ATTGTACCCA
 3648 GAGGTTCGTA ACCTCCCTGT GGGCTAGTGT TATGACCATC ACCATTTAC CTAAGTAGCT
 3708 CTGTTGCTCG GCCACAGTGA GCAGTAATAG ACCTGAAGCT GGAACCCATG TCTAATAGTG
 3768 TCAGGGTCCAG TGTTCTTAGC CACCCCACTC CCAGCTTCAT CCCTACTGGT GTTGTACATCA
 3828 GACTTGACC GTATATGCTC AGGTGTCCCTC CAAGAAATCA AATTTGCCA CCTCGCCTCA
 3888 CGAGGCCTGC CCTTCTGATT TTATACCTAA ACAACATGTG CTCCACATTT CAGAACCTAT
 3948 CTTCTTCGAC ACATGGGATA ACGAGGCTTA TGTGCACGAT GCACCTGTAC GATCACTGAA
 4008 CTGCACGCTC CGGGACTCAC AGCAAAAAAG CTTGGTGATG TCTGGTCCAT ATGAACTGAA
 4068 AGCTCTCCAC CTCCAGGGAC AGGATATGGA GCAACAAGGT AAATGGAAAC ATCCTGGTTT
 4128 CCCTGCCTGG CCTCCTGGCA GCTTGCTAAT TCTCCATGTT TTAAACAAAG TAGAAAGTTA
 4188 ATTTAAGGCA AATGATCAAC ACAAGTGAAA AAAAATATTA AAAAGGAATA TACAAACTTT
 4248 GGTCTTAGAA ATGGCACATT TGATTGCACT GGCCAGTGCA TTTGTTAACAA GGAGTGTGAC
 4308 CCTGAGAAAT TAGACGGCTC AAGCACTCCC AGGACCATGT CCACCCAAGT CTCTTGGGCA
 4368 TAGTGCAGTG TCAATTCTTC CACAATATGG GGTCAATTGAA TGGACATGGC CTAACGCCT
 4428 GTGGGTTCTC TCTTCCTGTT GTTGGAGGCTG AAACAAGAGT GCTGGAGGGA TAATGTGTCC
 4488 ATCCCCCTCC CCAGTCTTCC CCCCTGCCC CAACATCCGT CCCACCCAAT GCCAGGTGGT
 4548 TCCTTGTAGG GAAATTTAC CGCCCAGCAG GAACTTATAT CTCTCCGCTG TAACGGGCAA
 4608 AAGTTCAAG TCGGGTGAAC CCATCATTAG CTGTGGTGT CTGCCTGGCA TCGTGCCACA
 4668 GTAGCCAAAG CCTCTGCACA GGAGTGTGGG CAACTAAGGC TGCTGACTTT GAAGGACAGC
 4728 CTCACTCAGG GGGAAAGCTAT TTGCTCTCAG CCAGGCCAAG AAAATCCTGT TTCTTGGAA
 4788 TCGGGTAGTA AGAGTGTACCC CAGGGCCTCC AATTGACACT GCTGTGACTG AGGAAGATCA
 4848 AAATGAGTGT CTCTCTTGG AGCCACTTTC CCAGCTCAGC CTCTCCTCTC CCAGTTTCTT
 4908 CCCATGGGCT ACTCTCTGTT CCTGAAACAG TTCTGGTGCCT TGATTTCTGG CAGAAGTACA
 4968 GCTTCACCTC TTTCCTTCC TTCCACATTG ATCAAGTTGT TCCGCTCCTG TGGATGGGCA
 5028 CATTGCCAGC CAGTGACACA ATGGCTTCCCT TCCTCCTTC CTTCAGCATT TAAAATGTAG
 5088 ACCCTCTTC ATTCTCCGTT CCTACTGCTA TGAGGCTCTG AGAAACCCCTC AGGCCCTTGA
 5148 GGGGAAACCC TAAATCAACA AAATGACCCCT GCTATTGTCT GTGAGAAGTC AAGTTATCCT
 5208 GTGTCTTAGG CCAAGGAACC TCACTGTGGG TTCCACAGA GGCTACCAAT TACATGTATC
 5268 CTACTCTCGG GGCTAGGGGT TGGGGTGACC CTGCATGCTG TGTCCCTAAC CACAAGACCC
 5328 CCTTCTTCTC TCAGTGGTGT TCTCCATGTC CTTGTACAA GGAGAAGAAA GTAATGACAA
 5388 AATACCTGTG GCCTTGGGCC TCAAGGAAAA GAATCTGTAC CTGTCCTGCG TGTTGAAAGA
 5448 TGATAAGCCC ACTCTACAGC TGGAGGTAAG TGAATGCTAT GGAATGAAGC CCTCTCAGC
 5508 CTCCTGCTAC CACTTATTCC CAGACAAATTC ACCTTCTCCC CGCCCCCATC CCTAGGAAAA
 5568 GCTGGGAACA GGTCTATTG ACAAGTTTG CATTAAATGTA AATAAATTAA ACATAATTAA
 5628 TAACTGCGTG CAACCTTCAA TCCTGCTGCA GAAAATTAAA TCATTTGCC GATGTTATTAA
 5688 TGTCTTACCA TAGTTACAAC CCCAACAGAT TATATATTGT TAGGGCTGCT CTCATTTGAT
 5748 AGACACCTTG GGAAATAGAT GACTTAAAGG GTCCCATTAT CACGTCCACT CCACCTCCAA

Fig. 1C

5808 AATCACCACC ACTATCACCT CCAGCTTCT CAGCAAAAGC TTCATTCCA AGTTGATGTC
 5868 ATTCTAGGAC CATAAGGAAA AATACAATAA AAAGCCCTG GAAACTAGGT ACTTCAAGAA
 5928 GCTCTAGCTT AATTTCACCC CCCCCAAAAA AAAAAAATTC TCACCTACAT TATGCTCCCTC
 5988 AGCATTGGC ACTAAGTTT AGAAAAGAAG AAGGGCTCTT TTAATAATCA CACAGAAAGT
 6048 TGGGGGCCCA GTTACAACTC AGGAGTCTGG CTCCGTATCA TGTGACCTGC TCGTCAGTTT
 6108 CCTTCTGGC CAACCCAAAG AACATCTTC CCATAGGCAT CTTTGTCCCT TGCCCCACAA
 6168 AAATTCTTCT TTCTCTTCG CTGCAGAGTG TAGATCCAA AAATTACCCA AAGAAGAAGA
 6228 TGGAAAAGCG ATTTGTCTTC AACAAAGATAG AAATCAATAA CAAGCTGGAA TTTGAGTC
 6288 CCCAGTTCCC CAACTGGTAC ATCAGCACCT CTCAAGCAGA AAACATGCC GTCTTC
 6348 GAGGGACCAA AGGCGGCCAG GATATAACTG ACTTCACCCT GCAATTGTG TCTTC
 6408 GAGAGCTGTA CCCAGAGAGT CCTGTGCTGA ATGTGGACTC AATCCCTAGG GCTGGCAGAA
 6468 AGGGAACAGA AAGGTTTTG AGTACGGCTA TAGCCTGGAC TTTCTGTTG TCTACACCAA
 6528 TGCCCAACTG CCTGCCTTAG GGTAGTGCTA AGAGGATCTC CTGTC
 6588 TCAGCTCTCT CCTTCAGGG CCAATCCCCA GCCCTTTGT TGAGCCAGGC
 6648 TCTCCTACTC ACTTAAAGCC CGCCTGACAG AAACCACGGC CACATTGGT TCTAAGAAC
 6708 CCTCTGTCA TCGCTCCAC ATTCTGATGA GCAACCGCTT CCCTATTAT TTATTT
 6768 GTTTGTTGT TTTGATTCA TGGTCTAATT TATTCAAAGG GGGCAAGAAG TAGCAGTGC
 6828 TGTAAAAGAG CCTAGTTTT AATAGCTATG GAATCAATT AATTGGACT GGTGTGCTCT
 6888 CTTTAAATCA AGTCCTTAA TTAAGACTGA AAATATATAA GTCAGATTAA TTAAATGGG
 6948 AATATTATA AATGAGCAAA TATCATACTG TTCAATGGTT CTGAAATAAA CTTCA
 7008 GAAAAAAAGA AAAGGGCTC TCCTGATCAT TGACTGTCTG GATTGACACT GACAGTAAGC
 7068 AAACAGGCTG TGAGAGTTCT TGGGACTAAG CCCACTCCTC ATTGCTGAGT GCTGCAAGTA
 7128 CCTAGAAATA TCCTGGCCA CCGAAGACTA TCCTCCTCAC CCATCCCCCTT TATTC
 7188 TTCAACAGAA GGATATTCA TGCACATCTG GAACAGGATC AGCTGAAGCA CTGCAGGGAG
 7248 TCAGGACTGG TAGTAACAGC TACCATGATT TATCTATCAA TGCACCAAAAC ATCTGTTGAG
 7308 CAAGCGCTAT GTACTAGGAG CTGGGAGTAC AGAGATGAGA ACAGTCACAA GTCCCTC
 7368 AGATAGGAGA GGCAGCTAGT TATAAGCAGA ACAAGGTAAC ATGACAAGTA GAGTAAGATA
 7428 GAAGAACGAA GAGGAGTAGC CAGGAAGGAG GGAGGAGAAC GACATAAGAA TCAAGC
 7488 AGGGATAAAC AGAAGATTTC CACACATGGG CTGGGCCAAT TGGGTGTCGG TTACGC
 7548 AATCCAGCA CTTTGGGTGG CAGGGGCAGA AAGATCGCTT GAGCCAGGA GTTCAAGACC
 7608 AGCCTGGCA ACATAGTGAG ACTCCCACCT CTACAAAAAA TAAATAATAA AATAAA
 7668 TCAGCCAGGC ATGCTGGCAT GCACCTGTAG TCCTAGCTAC TTGGGAAGCT GACACTGGAG
 7728 GATTGCTTGA GCCCAGAAGT TCAAGACTGC AGTGAGCTTA TCCGTTGACC TGCA
 7788 C

Fig. 1D

-1933 AGAAAAGAAAG AGAGAGAGAA AGAAAAGAAA GAGGAAGGAA GGAAGGAAGG AAGAAAGACA
 -1873 GGCTCTGAGG AAGGTGGCAG TTCCTACAAAC GGGAGAACCA GTGGTTAATT TGCAAAGTGG
 -1813 ATCCTGTGGA GGCANNAGA GGAGTCCCCT AGGCCACCCA GACAGGGCTT TTGCTATCT
 -1753 GCAGGCCAGA CACCAAATTT CAGGAGGGCT CAGTGTAGG AATGGATTAT GGCTTATCAA
 -1693 ATTACACAGGA AACTAACATG TTGAACAGCT TTTAGATTTC CTGTGGAAAA TATAACTTAC
 -1633 TAAAGATGGA GTTCTTGTGA CTGACTCCTG ATATCAAGAT ACTGGGAGCC AAATTAAAAAA
 -1573 TCAGAAGGCT GCTTGGAGAG CAAGTCCATG AAATGCTCTT TTTCCCACAG TAGAACCTAT
 -1513 TTCCCTCGTG TCTCAAATAC TTGCACAGAG GCTCACTCCC TTGGATAATG CAGAGCGAGC
 -1453 ACGATACCTG GCACATACTA ATTTGAATAA AATGCTGTCA AATTCCCATT CACCCATTCA
 -1393 AGCAGCAAAC TCTATCTCAC CTGAATGTAC ATGCCAGGCA CTGTGCTAGA CTTGGCTCAA
 -1333 AAAGATTTC A GTTCCCTGGA GGAACCAGGA GGGCAAGGTT TCAACTCAGT GCTATAAGAA
 -1273 GTGTTACAGG CTGGACACGG TGGCTCACCG CTGTAATCCC AACATTGGG AGGCCGAGGC
 -1213 GGGCAGATCA CAAGGTCAAGG AGATCGAGAC CATCCTGGCT AACATGGTGA AACCTGTCT
 -1153 CTACTAAAAAA TACAAAAAAAT TAGCCGGGCG TTGGCGGCAG GTGCCTGTAG TCCCAGCTGC
 -1093 TGGGGAGGCT GAGGCAGGAG AATGGTGTGA ACCCGGGAGG CGGAACCTGTC AGGGGGCCGA
 -1033 GATCGTGCCA CTGCACTCCA GCCTGGGCGA CAGAGTGAGA CTCTGTCTCA AAAAAAAA
 -973 AAAAGTGT A TGATGCAGAC CTGTCAAAGA GGCAAAGGAG GGTGTTCTA CACTCCAGGC
 -913 ACTGTTCAT A ACCTGGACTC TCATTCAATC TACAAATGGA GGGCTCCCCT GGGCAGATCC
 -853 CTGGAGCAGG CACTTTGCTG GTGTCTCGGT TAAAGAGAAA CTGATAACTC TTGGTATTAC
 -793 CAAGAGATAG AGTCTCAGAT GGATATTCTT ACAGAAACAA TATTCCACT TTTCAGAGTT
 -733 CACCAAAAAA TCATTTAGG CAGAGCTCAT CTGGCATTGA TCTGGTTCAT CCATGAGATT
 -673 GGCTAGGGTA ACAGCACCTG GTCTTGAGG GTTGTGTGAG CTTATCTCCA GGGTTGCC
 -613 AACTCCGTCA GGAGCCTGAA CCCTGCATAC CGTATGTTCT CTGCCCCAGC CAAGAAAGGT
 -553 CAATTTCTC CTCAGAGGCT CCTGCAATTG ACAGAGAGCT CCCGAGGCAG AGAACAGCAC
 -493 CCAAGGTAGA GACCCACACC CTCAATACAG ACAGGGAGGG CTATTGGCC TCAATTGTAC
 -433 CCATTTATCC ATCTGTAAGT GGGAAAGATTC CTAAACTTAA GTACAAAGAA GTGAATGAAG
 -373 AAAAGTATGT GCATGTATAA ATCTGTTGT CTTCCACTTT GTCCCCACATA TACTAAATT
 -313 AAACATTCTT CTAACGTGGG AAAATCCAGT ATTTTAATGT GGACATCAAC TGCACAAACGA
 -253 TTGTCAGGAA ACAATGCAT ATTTGCATGG TGATACATTG GCAAAATGTG TCATAGTTG
 -193 CTACTCCTTG CCCTTCATG AACCAAGAGAA TTATCTCAGT TTATTAGTCC CCTCCCCCTAA
 -133 GAAGCTTCCA CCAATACTCT TTTCCCTTT CCTTTAACTT GATTGTGAAA TCAGGTATTC
 -73 AACAGAGAAA TTTCTCAGCC TCCTACTTCT GCTTTGAAA GCTATAAAAAA CAGCGAGGGA
 -13 GAAACTGGCA GATAACAAAC CTCTTCGAGG CACAAGGCAC AACAGGCTGC TCTGGGATTC
 48 TCTTCAGCCA ATCTCATTG CTCAAGTATG ACTTTAATCT TCCTTACAAC TAGGTGCTAA
 108 GGGAGTCTCT CTGTCCTCT GCCTCTTTGT GTGTATGCAT ATTCTCTCTC TCTCTCTCTT
 168 TCTTCCTCTG TCTCTCCTCT CCTTCCTCTC TGCCCTCTCT CTCAGCTTT TGCAAAATG
 228 CCAGGTGTAA TATAATGCTT ATGACTCGGG AAATATTCTG GGAATGGATA CTGCTTATCT
 288 AACAGCTGAC ACCCTAAAGG TTAGTGTCAA AGCCTCTGCT CCAGCTCTCC TAGCCAATAC
 238 ATTGCTAGTT GGGGTTGGT TTAGCAAATG CTTTCTCTA GACCCAAAGG ACTTCTCTTT
 308 CACACATTCA TTCATTACT CAGAGATCAT TTCTTGCAT GACTGCCATG CACTGGATGC
 468 TGAGAGAAAT CACACATGAA CGTAGCCGTC ATGGGAAAGT CACTCATTTC CTCCTTTTTA
 528 CACAGGTGTC TGAAGCAGCC ATGGCAGAAG TACCTGAGCT CGCCAGTGAA ATGATGGCTT
 588 ATTACAGGTC AGTGGAGACG CTGAGACCAG TAACATGAGC AGGTCTCCTC TTTCAAGAGT

Fig. 2A

648 AGAGTGTAT CTGTGCTTGG AGACCAGATT TTTCCCCTAA ATTGCCTCTT TCAGTGGCAA
 708 ACAGGGTGCC AAGTAAATCT GATTAAAGA CTACTTCCC ATTACAAGTC CCTCCAGCCT
 768 TGGGACCTGG AGGCTATCCA GATGTGTTGT TGCAAGGGCT TCCTGCAGAG GCAAATGGGG
 828 AGAAAAGATT CCAAGCCAC AATACAAGGA ATCCCTTGC AAAGTGTGGC TTGGAGGGAG
 888 AGGGAGAGCT CAGATTTAG CTGACTCTGC TGGGCTAGAG GTTAGGCCTC AAGATCCAAC
 948 AGGGAGCACC AGGGTGCCCA CCTGCCAGGC CTAGAATCTG CCTTCTGGAC TGTTCTGCC
 1008 ATATCACTGT GAAACTTGCC AGGTGTTCA GGCAGCTTG AGAGGCAGGC TGTTGCAGT
 1068 TTCTTATGAA CAGTCAAGTC TTGTACACAG GGAAGGAAAA ATAAACCTGT TTAGAAGACA
 1128 TAATTGAGAC ATGTCCTGT TTTATTACA GTGGCAATGA GGATGACTTG TTCTTGAAAG
 1188 CTGATGGCCC TAAACAGATG AAGCTAAGAC TATGGGTTA ACTCCCAACC CAAGGAAGGG
 1248 CTCTAACACA GGGAAAGCTC AAAGAAGGGG GTTCTGGGCC ACTTTGATGC CATGGTATT
 1308 TGTTTAGAA AGACTTTAAC CTCTTCCAGT GAGACACAGG CTGCACCACT TGCTGACCTG
 1368 GCCACTTGGT CATCATATCA CCACAGTCAC TCACTAACGT TGGTGGTGGT GGCCACACTT
 1428 GGTGGTGACA GGGGAGGGAGT AGTGATAATG TTCCCATTTC ATAGTAGGAA GACAACCAAG
 1488 TCTTCAACAT AAATTGATT ATCCTTTAA GAGATGGATT CAGCCTATGC CAATCACTTG
 1548 AGTTAAACTC TGAAACCAAG AGATGATCTT GAGAACTAAC ATATGTCAC CCCTTTGAG
 1608 TAGAATAGTT TTTGCTACC TGGGGTGAAG CTTATAACAA CAAGACATAG ATGATATAAA
 1668 CAAAAGATG AATTGAGACT TGAAAGAAAA CCATTCACTT GCTGTTGAC CTTGACAAGT
 1728 CATTTCACCC GCTTGGACC TCATCTGAAA AATAAAGGGC TGAGCTGGAT GATCTCTGAG
 1788 ATTCCAGCAT CCTGCAACCT CCAGTTCTGA AATATTTCAT GTTGTAGCTA AGGGCATTG
 1848 GGCAGCAAAT GGTCAATTTC CAGACTCATC CTTACAAAGA GCCATGTTAT ATTCTGCTG
 1908 TCCCTCTGT TTTATATGAT GCTCAGTAGC CTTCTCTAGGT GCCCAGCCAT CAGCCTAGCT
 1968 AGGTCAAGTTG TGCAGGTTGG AGGCAGCCAC TTTCTCTGG CTTTATTAA TTCCAGTTG
 2028 TGATAGCCTC CCCTAGCCTC ATAATCCAGT CCTCAATCTT GTTAAAAACA TATTCTTTA
 2088 GAAGTTTAA GACTGGCATA ACTTCTGGC TGCAGCTGTG GGAGGAGCCC ATTGGCTTGT
 2148 CTGCCTGGCC TTTGCCCTT ATTGCCTCTT CCAGCAGCTT GGCTCTGCTC CAGGCAGGAA
 2208 ATTCTCTCCT GCTCAACTT CTTTGTGCA CTTACAGGTC TCTTAACTG TCTTCAAGC
 2268 CTTTGAACCA TTATCAGCCT TAAGGCAACC TCAGTGAAGC CTTAACACGG AGCTTCTCTG
 2328 AATAAGAGGA AAGTGGTAAC ATTCACAAA AAGTACTCTC ACAGGATTG CAGAATGCCT
 2388 ATGAGACAGT GTTATGAAAA AGGAAAAAAA AGAACAGTGT AGAAAATTG AATACTTGCT
 2448 GAGTGAACAT AGGTGAATGG AAAATGTTAT GGTCACTGC ATGAAAAGC AAATCATAGT
 2508 GTGACAGCAT TAGGGATACA AAAAGATATA GAGAAGGTAT ACATGTATGG TGTAGGTGGG
 2568 GCATGTACAA AAAGATGACA AGTAGAACATC GGATTATTTC TAAAGAATAG CCTGTAAGGT
 2628 GTCCAGAACG CACATTCTAG TCTTGAGTCT GCCTCTACCT GCTGTGTGCC CTTGAGTACA
 2688 CCCTAACCT CCTTGAGCTT CAGAGAGGGG TAATCTTTT ATTTTATTAA ATTTTATTAA
 2748 GTTTGTAA GTTTGTAA GTTTATGAG ACAGAGTCTC ACTCTGTTGC CCAGGCTGGA
 2808 GTGCAGTGGT ACAATCTGG CTTACTGCAT CCTCCACCTC CTGAGTTCAA GCGATTCTCC
 2868 TTCCTCAGTC TCCTGAATAG CTAGGATTAC AGGTGCACCC CACCACACCC AGCTAATTAA
 2928 TGTATTTA GTAGAGAAGG GGTTTCGCCA TGTTGGCCAG GCTGGTTTG AAGTCCTGAC
 2988 CTAAATGATT CATCCACCTC GGCTTCCCAA AGTGCTGGGA TTACAGGCAT GAGCCACAC
 3048 GCCTGGCCCA GAGAGGGATG ATCTTAGAA GCTCGGGATT CTTTCAAGCC CTTTCCTCCT
 3108 CTCTGAGCTT TCTACTCTCT GATGTCAAAG CATGGTTCTC GGCAGGACCA CCTCACCAGG
 3168 CTCCCTCCCT CGCTCTCTCC GCAGTGCTCC TTCCAGGACC TGGACCTCTG CCCTCTGGAT
 3228 GGCGGCATCC AGCTACGAAT CTCCGACCAC CACTACAGCA AGGGCTTCAG GCAGGCCGCG

Fig. 2B

3288 TCAGTTGTTG TGGCCATGGA CAAGCTGAGG AAGATGCTGG TTCCCTGCC ACAGACCTTC
 3348 CAGGAGAATG ACCTGAGCAC CTTCTTCCC TTCATCTTG AAGAAGGTAG TTAGCCAAGA
 3408 GCAGGCAGTA GATCTCCACT TGTGTCCTCT TGGAAGTCAT CAAGCCCCAG CCAACTCAAT
 3468 TCCCCCAGAG CCAAAGCCT TTAAAGGTAG AAGGCCAGC GGGGAGACAA AACAAAGAAG
 3528 GCTGGAAACC AAAGCAATCA TCTCTTTAGT GGAAACTATT CTTAAAGAAG ATCTTGATGG
 3588 CTACTGACAT TTGCAACTCC CTCACTCTT CTCAGGGGCC TTTCACTTAC ATTGTCACCA
 3648 GAGGTTCGTA ACCTCCCTGT GGGCTAGTGT TATGACCATC ACCATTTAC CTAAGTAGCT
 3708 CTGTTGCTCG GCCACAGTGA GCAGTAATAG ACCTGAAGCT GGAACCCATG TCTAATAGTG
 3768 TCAGGTCCAG TGTTCTTAGC CACCCCACTC CCAGCTTCAT CCCTACTGGT GTGTCATCA
 3828 GACTTTGACC GTATATGCTC AGGTGTCCTC CAAGAAAATCA AATTTTGCCA CCTCGCCTCA
 3888 CGAGGCCTGC CCTTCTGATT TTATACCTAA ACAACATGTG CTCCACATTT CAGAACCTAT
 3948 CTTCTTCGAC ACATGGGATA ACGAGGCTTA TGTGCACGAT GCACCTGTAC GATCACTGAA
 4008 CTGCACGCTC CGGGACTCAC AGCAAAAAAG CTTGGTGATG TCTGGTCCAT ATGAACGTGAA
 4068 AGCTCTCCAC CTCCAGGGAC AGGATATGGA GCAACAAGGT AAATGGAAAC ATCCTGGTTT
 4128 CCCTGCCTGG CCTCCTGGCA GCTGCTAAT TCTCCATGTT TTAAACAAAG TAGAAAGTTA
 4188 ATTTAAGGCA AATGATCAAC ACAAGTGAAA AAAAATATTA AAAAGGAATA TACAAACTTT
 4248 GGTCTTAGAA ATGGCACATT TGATTGCACT GGCCAGTGCA TTTGTTAACAA GGAGTGTGAC
 4308 CCTGAGAAAT TAGACGGCTC AAGCACTCCC AGGACCATGT CCACCCAAGT CTCTGGGCA
 4368 TAGTGCAGTG TCAATTCTTC CACAATATGG GGTCAATTGA TGGACATGGC CTAACGTGCT
 4428 GTGGGTTCTC TCTTCCTGTT GTTGAGGCTG AAACAAGAGT GCTGGAGCGA TAATGTGTCC
 4488 ATCCCCCTCC CCAGTCTTCC CCCCTTGCCC CAACATCCGT CCCACCCAAT GCCAGGTGGT
 4548 TCCTTGTAGG GAAATTTAC CGCCCAGCAG GAACTTATAT CTCTCCGCTG TAACGGGCAA
 4608 AAGTTCAAG TGCGGTGAAC CCATCATTAG CTGTGGTGAT CTGCCTGGCA TCGTGCCACA
 4668 GTAGCCAAAG CCTCTGCACA GGAGTGTGGG CAACTAAGGC TGCTGACTTT GAAGGACAGC
 4728 CTCACTCAGG GGGAAAGCTAT TTGCTCTCAG CCAGGCCAAG AAAATCCTGT TTCTTTGGAA
 4788 TCGGGTAGTA AGAGTGTAC CAGGGCCTCC AATTGACACT GCTGTGACTG AGGAAGATCA
 4848 AAATGAGTGT CTCTCTTGG AGCCACTTTC CCAGCTCAGC CTCTCCCTC CCAGTTTCTT
 4908 CCCATGGGCT ACTCTCTGTT CCTGAAACAG TTCTGGTGC TGATTTCTGG CAGAAGTACA
 4968 GCTTCACCTC TTTCTTCCC TTCCACATTG ATCAAGTTGT TCCGCTCCTG TGGATGGGCA
 5028 CATTGCCAGC CAGTGACACCA ATGGCTTCCCT TCCTTCCCTC CTTCAGCATT TAAAATGTAG
 5088 ACCCTCTTTC ATTCTCCGTT CCTACTGCTA TGAGGCTCTG AGAAACCCCT AGGCCTTTGA
 5148 GGGGAAACCC TAAATCAACA AAATGACCCCT GCTATTGTCT GTGAGAAGTC AAGTTATCCT
 5208 GTGTCTTAGG CCAAGGAACC TCAACTGTGGG TTCCCACAGA GGCTACCAAT TACATGTATC
 5268 CTACTCTCGG GGCTAGGGT TGGGGTGACCT GCATGCTG TGTCCTAAC CACAAGACCC
 5328 CCTTCTTCTC TCAGTGGTGT TCTCCATGTC CTTTGACAA GGAGAAGAAA GTAATGACAA
 5388 AATACCTGTG GCCTTGGCC TCAAGGAAAA GAATCTGTAC CTGTCTGCG TGGTGAAGA
 5448 TGATAAGCCC ACTCTACAGC TGGAGGTAAG TGAATGCTAT GGAATGAAGC CCTTCTCAGC
 5508 CTCCTGCTAC CACTTATTCC CAGACAATTG ACCTTCTCCC CGCCCCCATC CCTAGGAAAA
 5568 GCTGGGAACA GGTCTATTG ACAAGTTTG CATTAATGTA AATAAATTAA ACATAATTAA
 5628 TAACTGCGTG CAACCTCAA TCCTGCTGCA GAAAATTAAA TCATTTGCC GATGTTATTAA
 5688 TGTCTACCA TAGTTACAAC CCCAACAGAT TATATATTGT TAGGGCTGCT CTCATTTGAT
 5748 AGACACCTTG GGAAATAGAT GACTTAAAGG GTCCCATTAT CACGTCCACT CCACTCCCAA
 5808 AATCACCACC ACTATCACCT CCAGCTTCT CAGCAAAAGC TTCATTTCCA AGTTGATGTC

Fig. 2C

5868 ATTCTAGGAC CATAAGGAAA AATACAATAA AAAGCCCTG GAAACTAGGT ACTTCAAGAA
 5928 GCTCTAGCTT AATTTTCAAC CCCCCAAAAA AAAAAAATTC TCACCTACAT TATGCTCCCTC
 5988 AGCATTTGGC ACTAAGTTT AGAAAAGAAG AAGGGCTCTT TTAATAATCA CACAGAAAGT
 6048 TGGGGGCCCA GTTACAACTC AGGAGTCTGG CTCCCTGATCA TGTGACCTGC TCGTCAGTTT
 6108 CCTTTCTGGC CAACCCAAAG AACATCTTC CCATAGGCAT CTTTGTCCCT TGCCCCACAA
 6168 AAATTCTTCT TTCTCTTTCG CTGCAGAGTG TAGATCCAA AAATTACCCA AAGAAGAAGA
 6228 TGGAAAAGCG ATTTGTCTTC ACAAGAGATAG AAATCAATAA CAAGCTGGAA TTTGAGTCTG
 6288 CCCAGTTCCC CAACTGGTAC ATCAGCACCT CTCAAGCAGA AAACATGCC CTTCTCCTGG
 6348 GAGGGACCAA AGGCGGCCAG GATATAACTG ACTTCACCAT GCAATTGTG TCTTCCTAAA
 6408 GAGAGCTGTA CCCAGAGAGT CCTGTGCTGA ATGTGGACTC AATCCCTAGG GCTGGCAGAA
 6468 AGGGAACAGA AAGGTTTTG AGTACGGCTA TAGCCTGGAC TTTCTGTTG TCTACACCAA
 6528 TGCCCAACTG CCTGCCTTAG GGTAGTGCTA AGAGGATCTC CTGTCCATCA GCCAGGACAG
 6588 TCAGCTCTCT CCTTTCAGGG CCAATCCCCA GCCCTTTGT TGAGCCAGGC CTCTCTCACC
 6648 TCTCCTACTC ACTTAAAGCC CGCCTGACAG AAACCACGGC CACATTGGT TCTAAGAAAC
 6708 CCTCTGTCA TCGCTCCAC ATTCTGATGA GCAACCGCTT CCCTATTAT TTATTTATT
 6768 GTTTGTTGT TTTGATTCA TGGTCTAATT TATTCAAAGG GGGCAAGAAG TAGCAGTGT
 6828 TGTAAAAGAG CCTAGTTTT AATAGCTATG GAATCAATT AATTTGGACT GGTGTGCTCT
 6888 CTTTAAATCA AGTCCTTAA TTAACACTGA AAATATATAA GCTCAGATTA TTTAAATGGG
 6948 AATATTATA AATGAGCAAA TATGATACTG TTCAATGGTT CTGAAATAA CTTCACTGAA
 7008 GAAAAAAAGA AAAGGGCTC TCCTGATCAT TGACTGTCTG GATTGACACT GACAGTAAGC
 7068 AAACAGGCTG TGAGAGTTCT TGGGACTAAG CCCACTCCTC ATTGCTGAGT GCTGCAAGTA
 7128 CCTAGAAATA TCCCTGGCCA CCGAAGACTA TCCTCCTCAC CCATCCCCCTT TATTCGTTG
 7188 TTCAACAGAA GGATATTCA TGCACATCTG GAACAGGATC AGCTGAAGCA CTGCAGGGAG
 7248 TCAGGACTGG TAGTAACAGC TACCATGATT TATCTATCAA TGCACAAAC ATCTGTTGAG
 7308 CAAGCGCTAT GTACTAGGAG CTGGGAGTAC AGAGATGAGA ACAGTCACAA GTCCCTCCTC
 7368 AGATAGGAGA GGCAGCTAGT TATAAGCAGA ACAAGGTAAC ATGACAAGTA GAGTAAGATA
 7428 GAAGAACGAA GAGGAGTAGC CAGGAAGGAG GGAGGAGAAC GACATAAGAA TCAAGCCTAA
 7488 AGGGATAAAC AGAAGATTC CACACATGGG CTGGGCCAAT TGGGTGTCGG TTACGCCTGT
 7548 AATCCCAGCA CTTTGGGTGG CAGGGGCAGA AAGATCGCTT GAGCCCAGGA GTCAAGACC
 7608 AGCCTGGGCA ACATAGTGAG ACTCCCACATCT CTACAAAAAA TAAATAATAA AATAAAACAA
 7668 TCAGCCAGGC ATGCTGGCAT GCACCTGTAG TCCTAGCTAC TTGGGAAGCT GACACTGGAG
 7728 GATTGCTTGA GCCCAGAAGT TCAAGACTGC AGTGAGCTTA TCCGTTGACC TGCAGGTCGA
 7788 C

Fig. 2D

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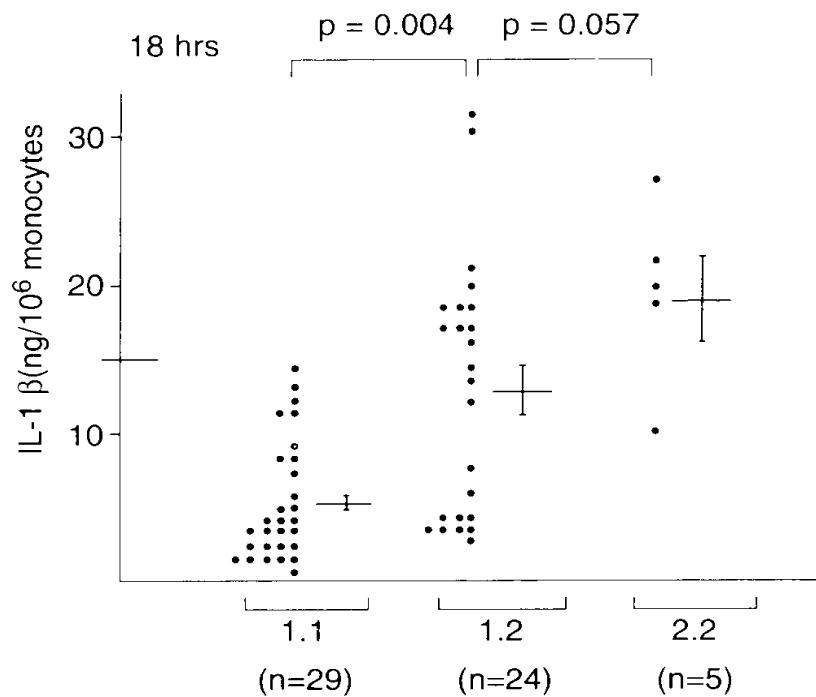


Fig. 3A

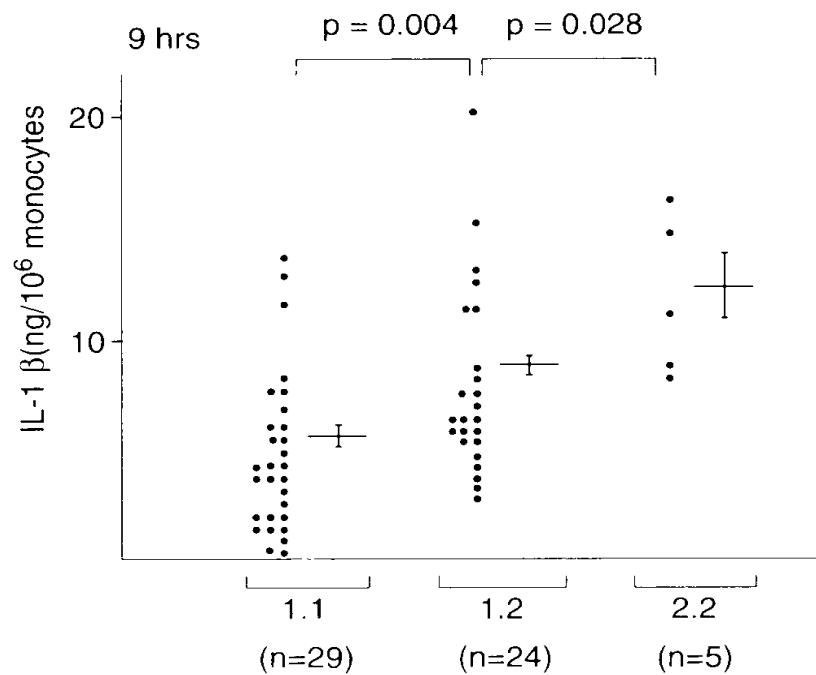


Fig. 3B

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$p = 0.0143$	$p = 0.0275$	$p = 0.05$	$p = 0.06$
63.94 ± 7.73	43.75 ± 3.49	17.58 ± 4.87	8.48 ± 2.15
26.36 ± 5.95	15.94 ± 8.59	7.64 ± 2.10	3.57 ± 1.13

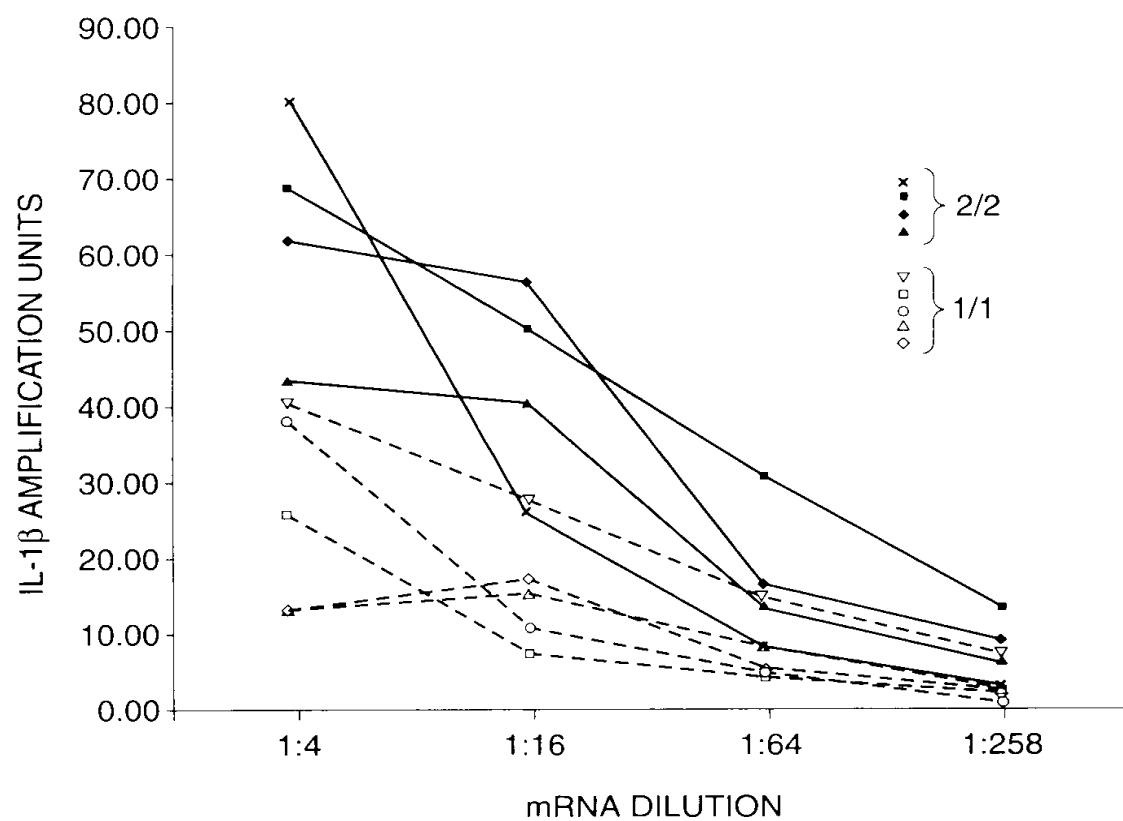


Fig. 4